

the Karnataka State Industrial Investment and Development Corporation for UNIDO assistance for rehabilitation of food processing industries in Karnataka and from the Director, Animal Husbandry, Government of Karnataka for a meat project under Cooperative Sector. A proposal has been received from the Government of Karnataka for setting up of a fruit processing plant with DANIDA assistance. In addition, 69 applications for the manufacture of beer and potable alcohol were received from the State of Karnataka from private entrepreneurs and Industrial Development Corporation

(c) While this Ministry does not set up Food Processing Industries directly in any State, several developmental plan schemes have been formulated for providing assistance to State Government Organisations/ Cooperatives/Voluntary Agencies etc. for setting up such units.

#### **Use of Methanol and Lathanol in Surface Transport**

5281. DR. Y.S. RAJASEKHAR REDDY  
SHRI LAL JAN S.M. BASHA:

Will the Minister of POWER AND NON-CONVENTIONAL ENERGY SOURCES be pleased to state:

(a) the result of the experimental conducted by the Department of Non-Conventional Energy Sources by using methanol and lathanol as substitutes for diesel in surface transport;

(b) the names of the projects which are developing such alternate fuels; and

(c) the amount sanctioned by the Government on research and development work and the achievements made?

THE MINISTER OF STATE OF THE

MINISTRY OF POWER AND NON-CONVENTIONAL ENERGY SOURCES (SHRI KALP NATH RAI): (a) to (c). A statement in this regard is enclosed herewith.

#### **STATEMENT**

Use of alcohols to partially replace diesel oil has been demonstrated by the R&D projects of the Department of Non-Conventional Energy Sources. During 1988-90, ten buses of Delhi Transport Corporation (DTC) were operated 6.43 lakh km. using methanol to achieve 12-15% diesel replacement under a demonstration project entitled "Use of Methanol as alternate fuel in diesel vehicles". This was followed up by use of ethanol wherein 25 DTC buses were run 15.82 lakh km. on dual-fuel mode during August, 90-November, 91 achieving about 14% diesel replacement. This project was entitled "Demonstration project on bifuel operation of diesel vehicles with alcohol". Apart from substituting imported diesel, another major advantage of both these projects was about 33 percent reduction in smoke emission. The total expenditure on these projects relating to diesel replacement has been approx. Rs. 22 lakhs.

2. As regards use of alcohols for petrol replacement, a project entitled "Alcohol fuel substitution in automobiles fleet Monitoring-cum-Demonstration Trials" has recently been sanctioned to IIT Delhi at an outlay of Rs. 19,12,250/- for demonstrating use of Petrol (90%) blended with anhydrous ethanol (10%). The Delhi Administration and Indian Oil Corporation will be collaborating with IIT Delhi for smooth conduct of this experiment and demonstration.

#### **Recovery of ITDC Hotel Dues from Bihar Bhawan**

5282. SHRI VISHWANATH SHASTRI: Will the Minister of CIVIL AVIATION AND TOURISM be pleased to state: